POLARIS™

OZI EXPLORER

Basic Instruction Manual

Including

HEMA maps

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Starting the Off Road mapping.

To start the OziExplorer software simply click
the Off Road Navigation icon from the user interface.

This may require quitting the Street Navigation first.

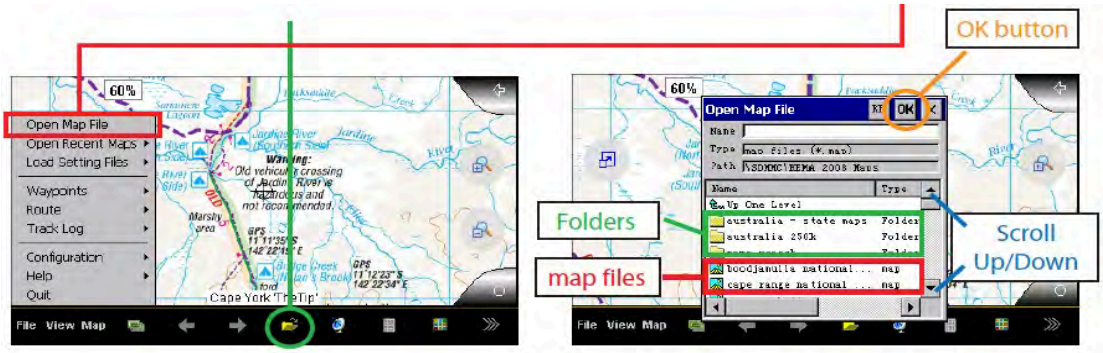
Acquiring Satellites

Make sure your vehicle is not inside a garage or parked under large trees or next to tall buildings. Start the Off Road mapping and wait until the GPS has acquired a strong satellite signal lock. This may take several minutes.

Once the Satellite has locked on it will show your current position on the HEMA 250,000:1 map pre-installed in your unit.

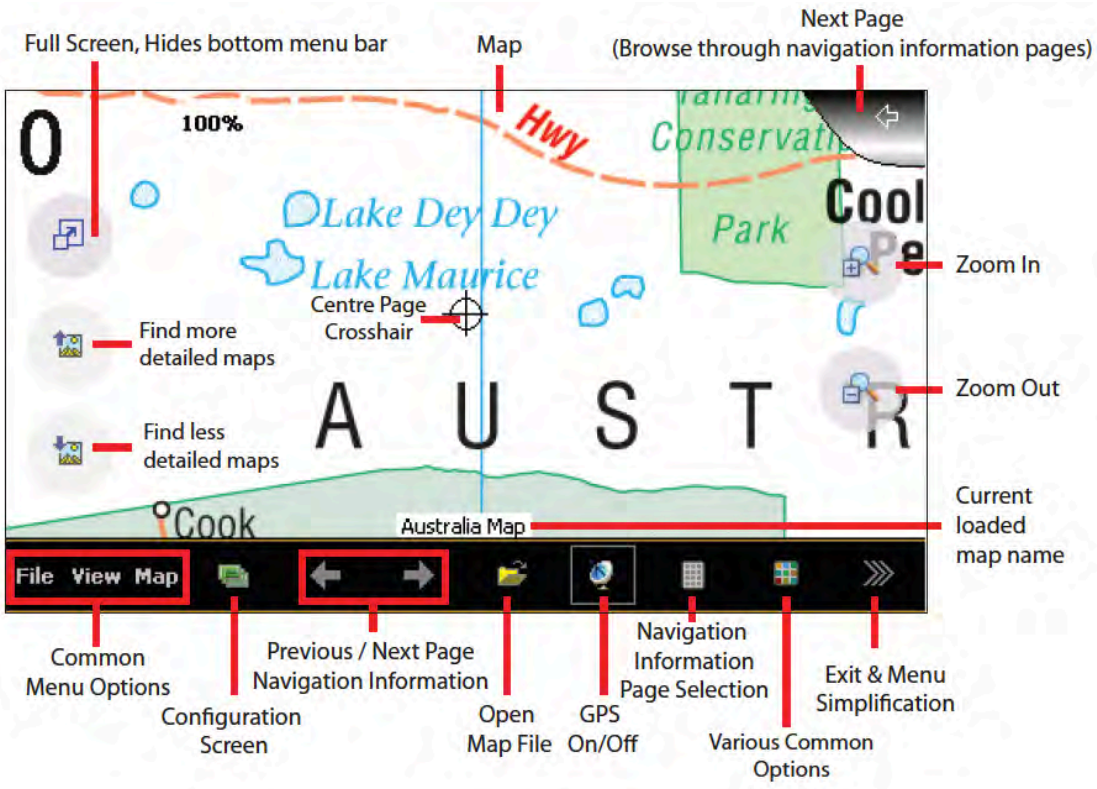
Opening a map

If you are using your unit for the first time or wish to load another map you can load a map 2 ways. Either by selecting the Open Map icon from the list of Icons on the bottom of the screen or by selecting >File, Open Map File
Once you have found the correct map file select it and click OK.



Select the desired map file and press OK button

On Screen Functions and Icons

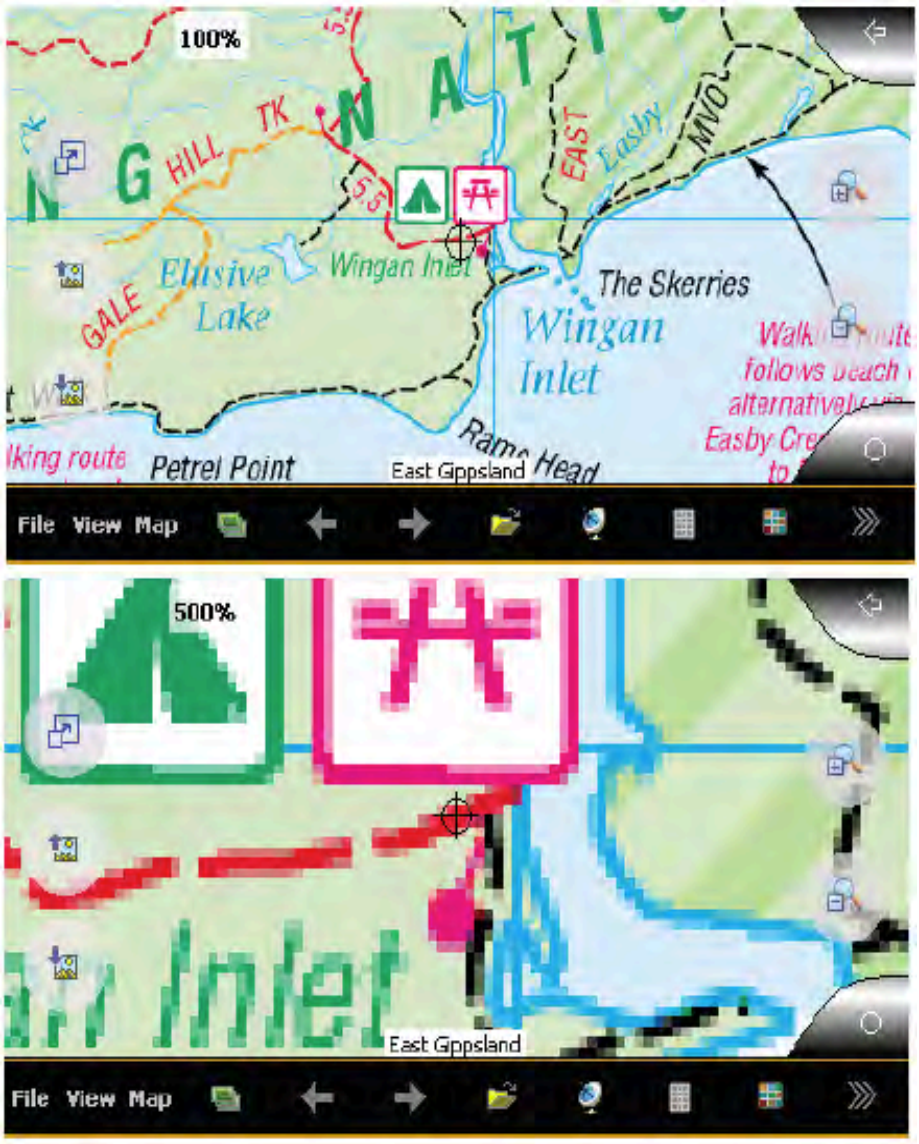


Using Maps

When using the OziExplorer software and HEMA 250K map you need to understand that the unit operates by joining hundreds of map files together like a puzzle to form a complete topographical map of Australia.
Please also note that these individual map files are quite large and may take a few seconds to load when scrolling the map screen with your finger and moving on to a different map file.

Understanding the Zoom function

Zooming in and out of a map is basically the same as looking at a paper map using a magnifying glass. The OziExplorer software uses the same principal. You open a map file and if you want to get a closer look you would use the zoom in function from the icon on the screen. If you want to see more of the surrounding areas you would zoom out using the icon on the screen.



This tool is useful in the event of searching the Australia map when the GPS function is turned off.

Please note that the zoom function will only zoom the map that is currently loaded. If you have other more detailed maps of the area you wish to zoom on your SD card you will need to change map files to put this function to better use.

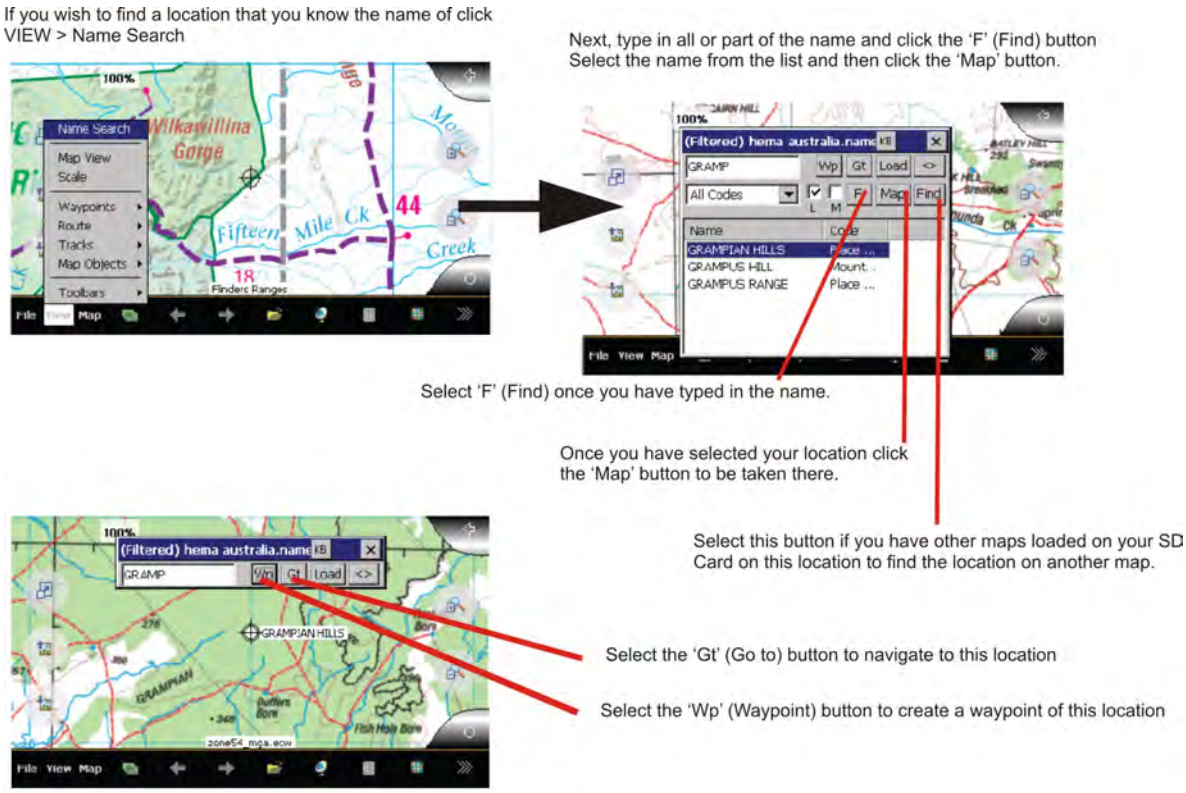
Understanding Map searching

If you have any other regional maps loaded on your SD card you can load them from the 'Find Maps' menu. Please note that you can add other maps that are compatible with OziExplorer but you are restricted to the size of the SD card you are using in your device.

You can search for a map around your current position by going to
The Map menu and select 'Find Maps' > Find maps at cursor.
If you have any other maps of this area loaded on your SD card they will be shown in the Maps Found list. Simply highlight the map you want and click OK

Searching for a specific location

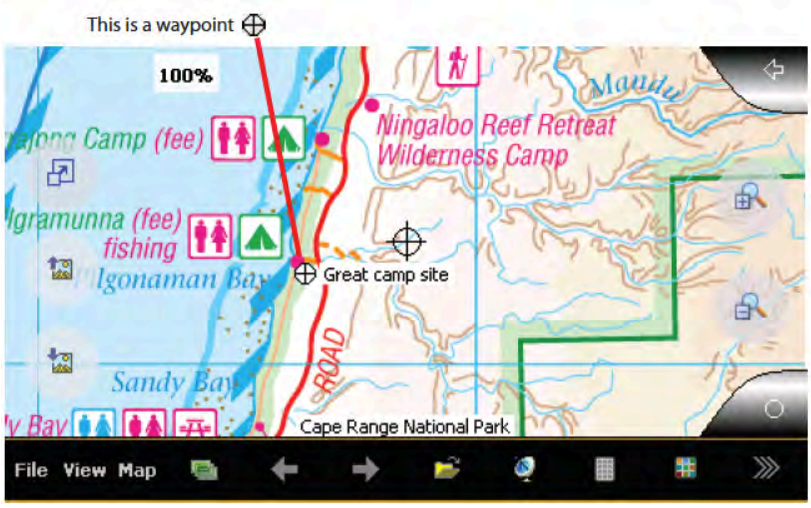
Alternately you can search for a specific location by entering it's name.
Just select the 'View' menu > Name Search then enter the name and select the correct location from the name search box.
For Navigation and waypoint instructions please follow the graphic below.


If you wish to find a location that you know the name of click VIEW > Name Search
Name Search
Map View
Scale
Waypoints
Route
Tracks
Map Objects
Toolbars
Wilkawillina Gorge
Fifteen Mile Ck
Creek
Flinders Ranges
Next, type in all or part of the name and click the 'F' (Find) button
Select the name from the list and then click the 'Map' button.
(Filtered) hema australia.name
GRAMP
Wp
Gt
Load
All Codes
Find
Name
GRAMPIAN HILLS
GRAMPUS HILL
GRAMPUS RANGE
Select 'F' (Find) once you have typed in the name.
Once you have selected your location click the 'Map' button to be taken there.
Select this button if you have other maps loaded on your SD Card on this location to find the location on another map.
Select the 'Gt' (Go to) button to navigate to this location
Select the 'Wp' (Waypoint) button to create a waypoint of this location

Waypoints

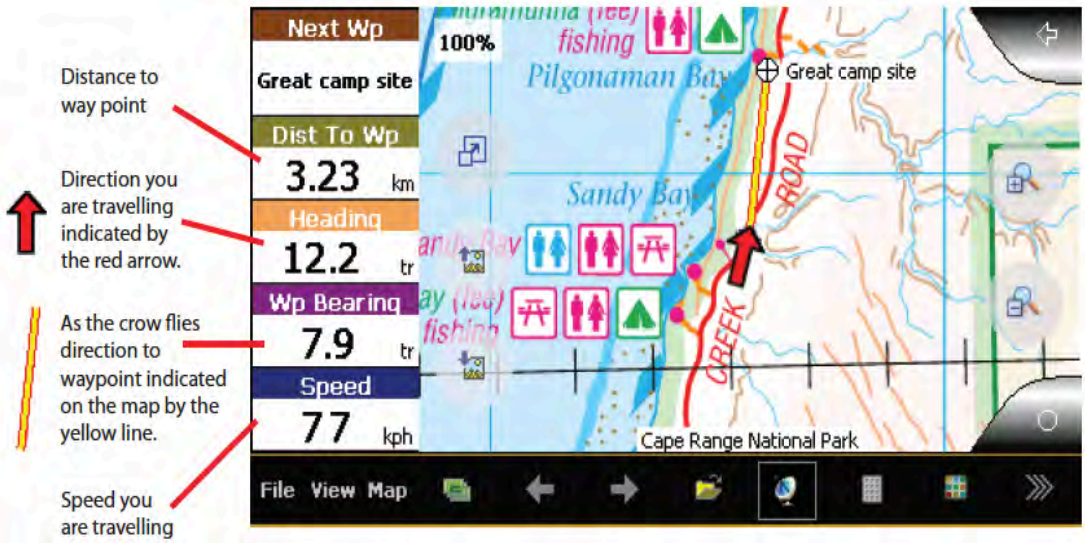
Waypoints are locations or landmarks that can be marked on your map and stored in your unit for future reference. Examples of Waypoints could be camp sites, vehicle locations, hazardous areas, or even your favourite fishing spot.

Waypoints can be added either prior to or during a trip by either manually entering the co-ordinates or simply by marking them using the Waypoint 'Wp' button in the OziExplorer software. Each waypoint can be created, named and saved on you Polaris unit for later reference and ease of use.



Purpose of a Waypoint

The purpose of a waypoint is to mark a specific location on your map and help you navigate to that location. If you wish to navigate to the Waypoint, OziExplorer will help you with bearing and heading as well as assist in direction.



Understanding Planning and Navigation modes

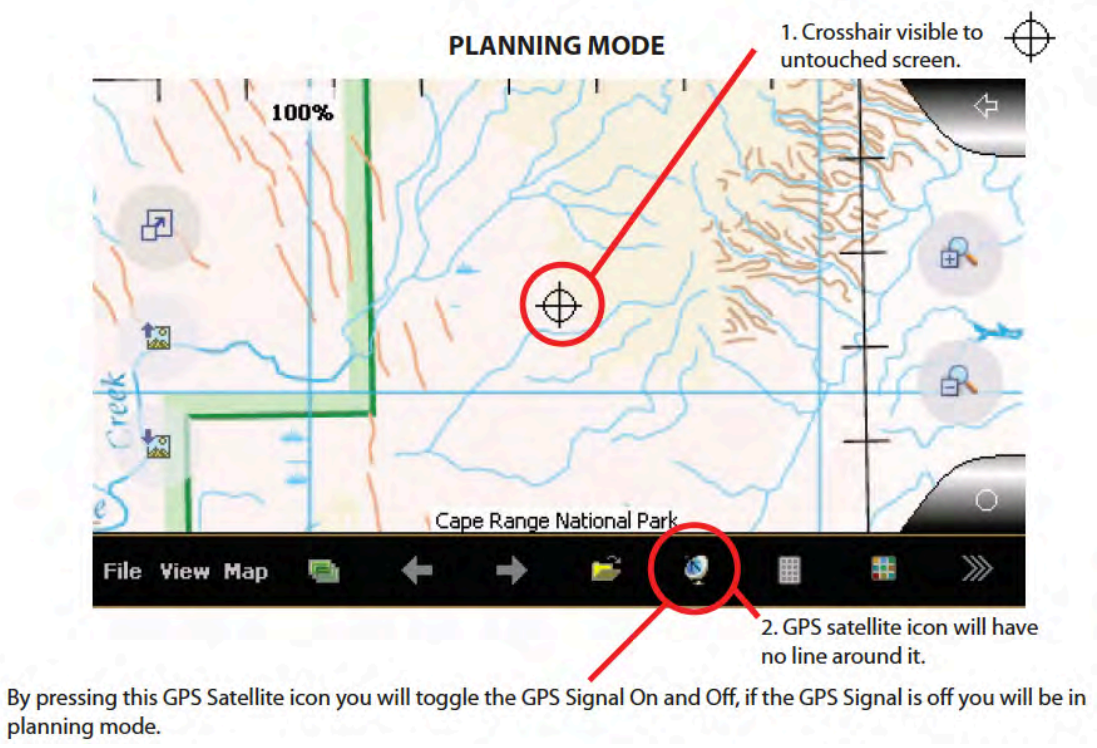
Before you begin to plot Waypoints you need to understand that OziExplorer has 2 different modes. Planning mode and Navigation mode.
The main difference between Planning and Navigation is mode is that Planning mode has the GPS satellite function turned off.

PLANNING MODE

Planning mode is used to browse maps, place waypoints, view routes or track logs/ breadcrumb trails. There is no GPS lock in planning mode so you are not restricted to seeing just your current location on the map screen.

There are 2 ways to tell if you are in planning mode.

1. You will see a crosshair in the centre of the touch screen.
2. You will see that the GPS icon on the toolbar has no line around it.


PLANNING MODE
1. Crosshair visible to untouched screen.
100%
Cape Range National Park
File View Map
2. GPS satellite icon will have no line around it.

By pressing this GPS Satellite icon you will toggle the GPS Signal On and Off, if the GPS Signal is off you will be in planning mode.

No GPS (Planning Mode)

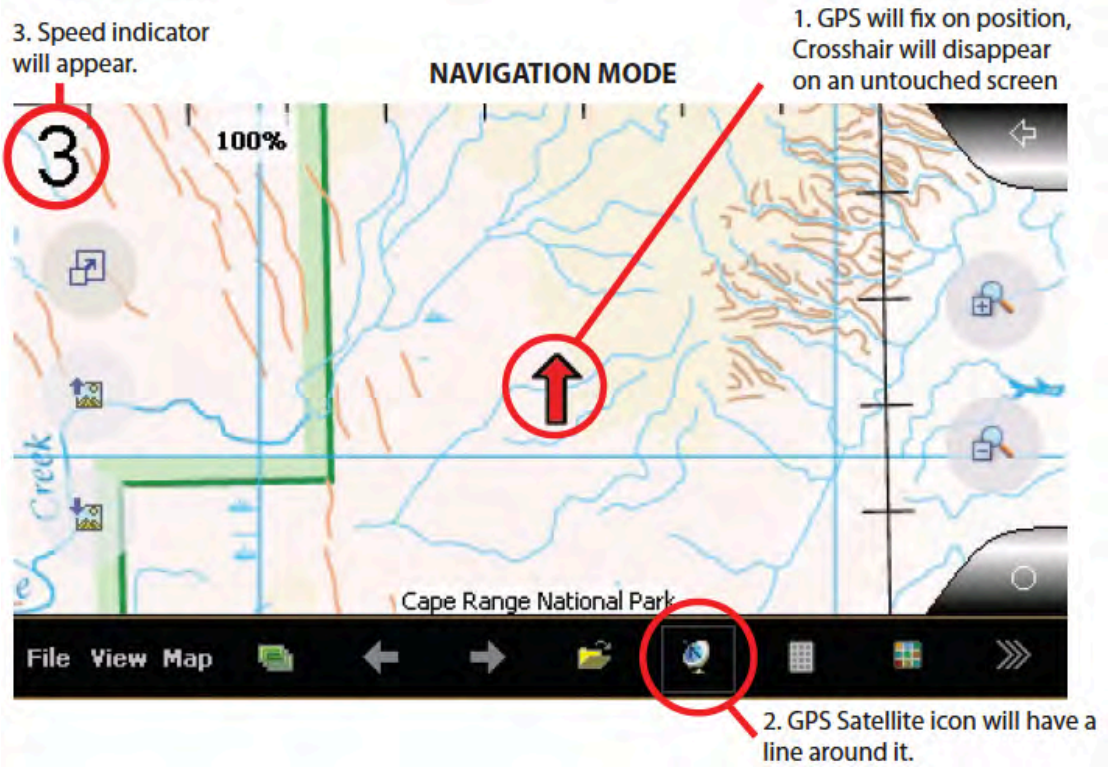
GPS Lock On (Navigation Mode)

NAVIGATION MODE

Navigation mode is used when you are on the move and navigating with the GPS signal active. As you move your vehicle, your position on the map will be indicated by a red arrow. Planned routes and Waypoints can correspond with your current position providing data for Heading, Bearings, Distance, Speed and Direction.

There are 3 methods to tell if you are in Navigation mode.

1. There is a red arrow at the centre of the map showing your current position.
2. You will see a line around the GPS icon on the toolbar.
3. The speed indicator will appear.

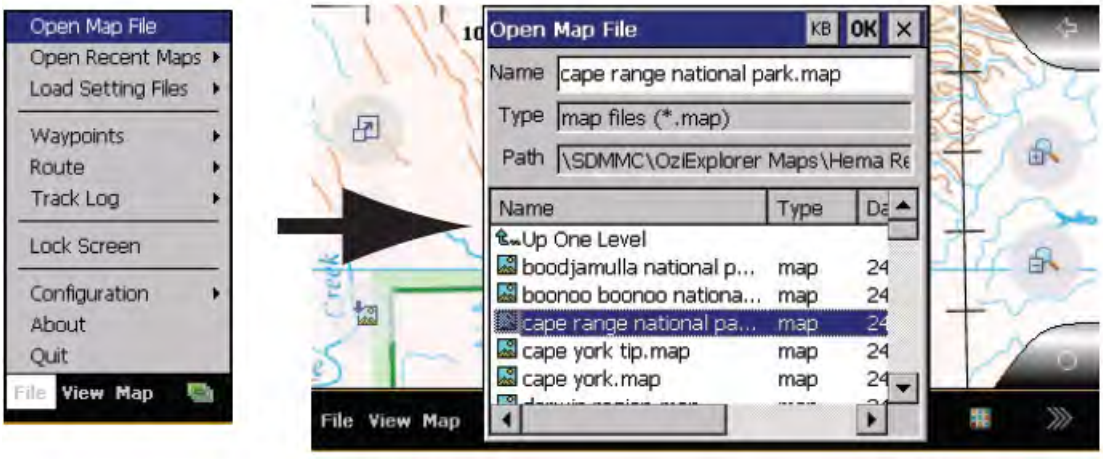

3. Speed indicator will appear.
NAVIGATION MODE
1. GPS will fix on position, Crosshair will disappear on an untouched screen
3
100%
Cape Range National Park
File View Map
2. GPS Satellite icon will have a line around it.

Setting up a Waypoint

This section will show the setting up of a Waypoint using planning mode.

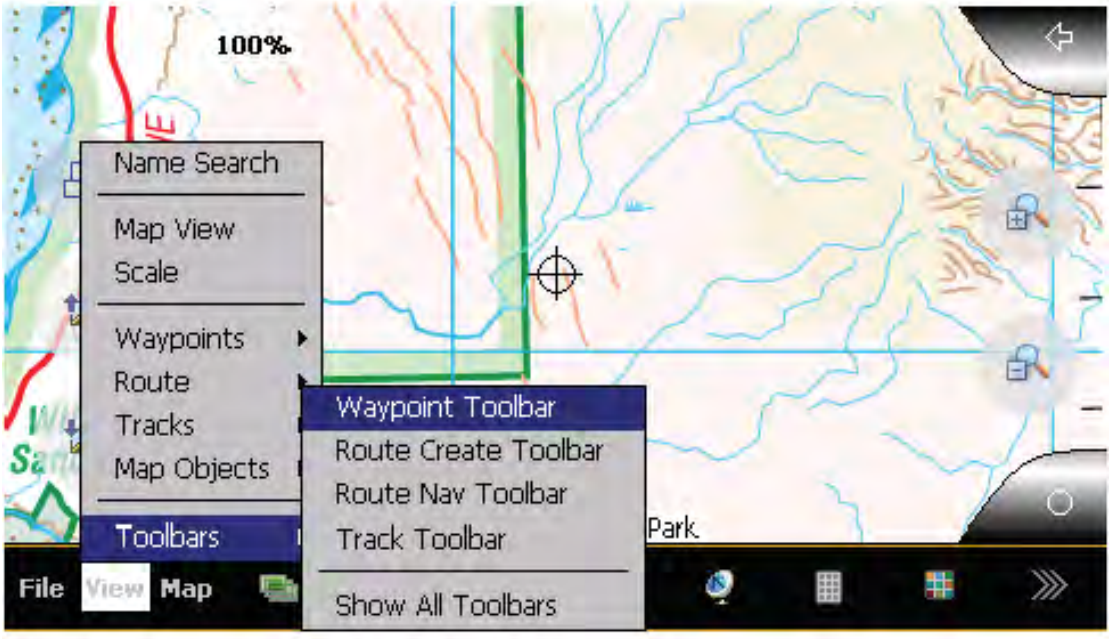
Firstly, we need to load a map, this tutorial will show you how to load the Cape Range National Park Map.
Go to 'File' on the toolbar then select 'Open map file'. Then you can search for/find the Cape Range map file, then click 'OK'.

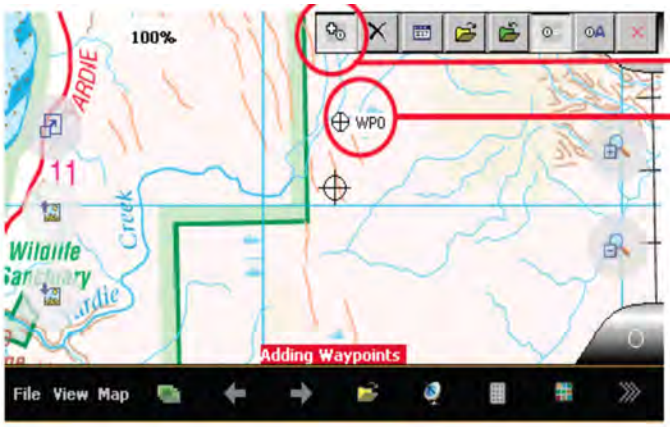
Go to FILE > Open Map File > Select Cape Range National park > OK



Next you can open the Waypoint toolbar, this is done by going to 'View' on the bottom toolbar, then selecting 'Toolbars' and then selecting 'Waypoints toolbar'

Go to View > Toolbars > Select Waypoints toolbar > OK



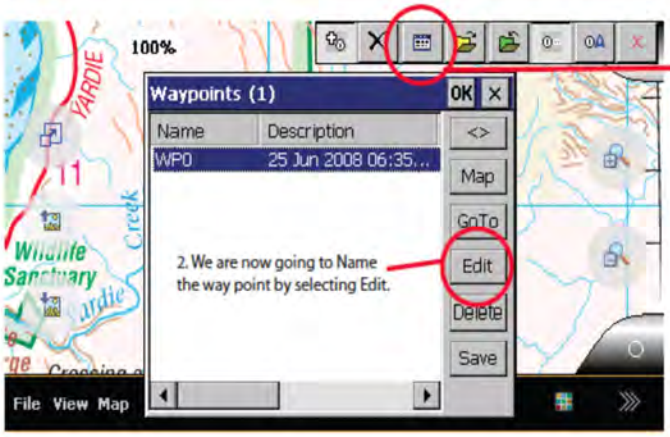


Add a Waypoint by selecting this tool

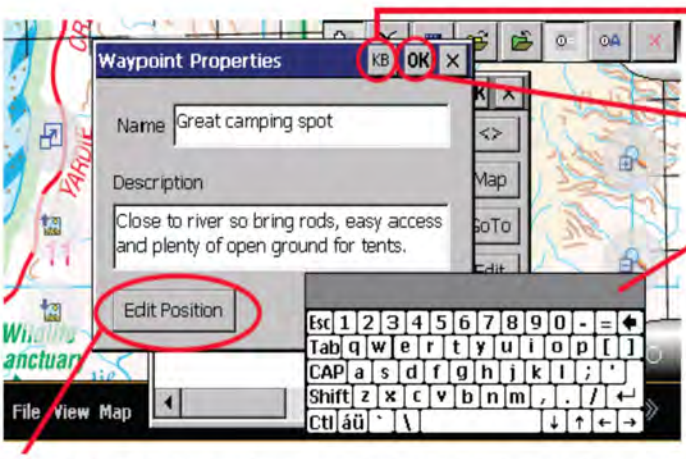
Click where you wish to add the Waypoint

TIP

Hold the stylus on the touch screen for approx 3 seconds and to bring up menu to add Waypoints.



Press this button to show a list of all Waypoints.



Press the 'KB' button to show the keyboard and allow you enter/edit your Waypoint details

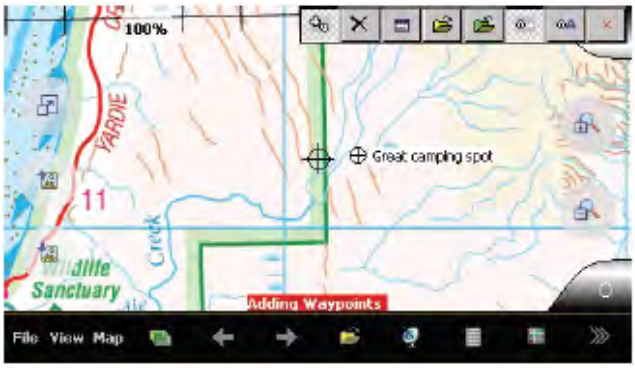
Select 'OK' to finish and save your Waypoint. Select OK again on the Waypoints list window.

TIP

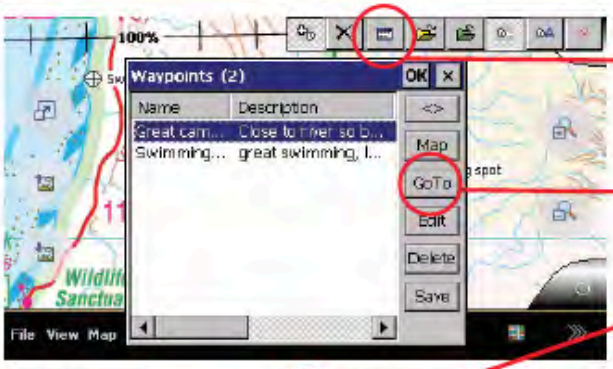
If the keyboard is blocking your view drag the grey bar at the top of the keyboard to move it to a new location.

If you wish to edit the location of your Waypoint, select the 'Edit Position' button to do so.

Navigating to a Waypoint



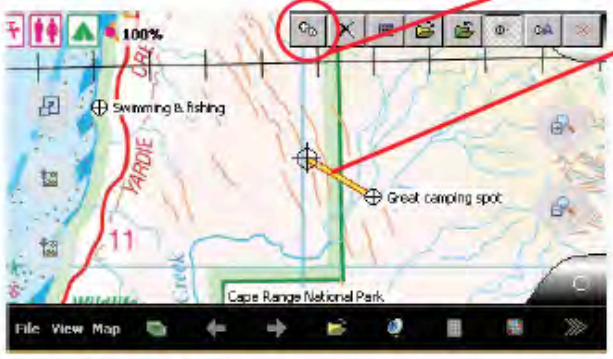
You should now see your waypoint named on the map like so. Feel free to add some more in for practice.



Select the Waypoints list option, I added another waypoint just for demonstration purpose.

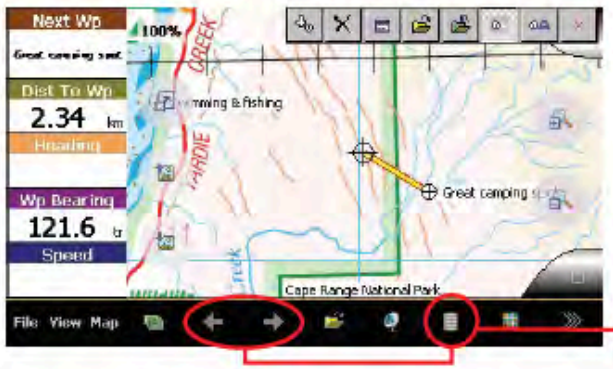
Next press the GoTo button on any waypoint you have created.

Turn the Add Waypoints function off now so we can drag the map without accidently creating waypoints.



You will now see a yellow line going from your crosshair to the way point, this is your' as the crow flies navigation line.

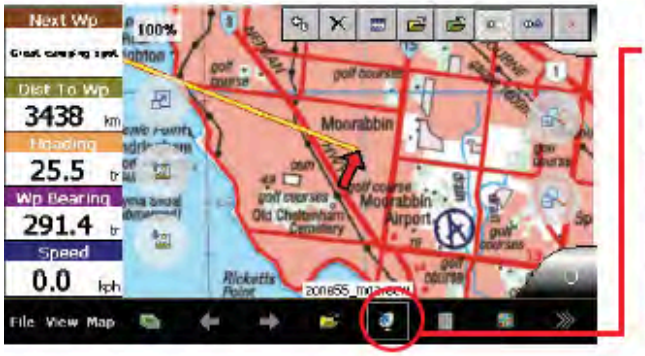
Press the right navigation page arrow twice to bring up the waypoints information screen as illustrated. Feel free to keep pressing either the left or right page buttons to get a feel for the other page options available. In this instance however we just wish to view our waypoint navigation information.



You will now see information on your waypoint selected and your current position on the map. As we move around the map the distance to waypoint and bearings will change in values accordingly.

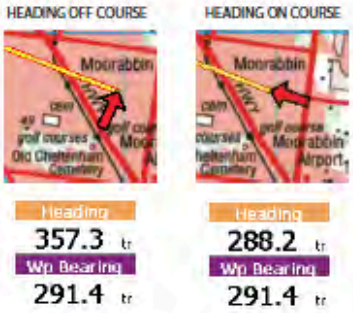
We won't see any heading and speed information as we are in planning mode and will need a GPS fix to display this information.

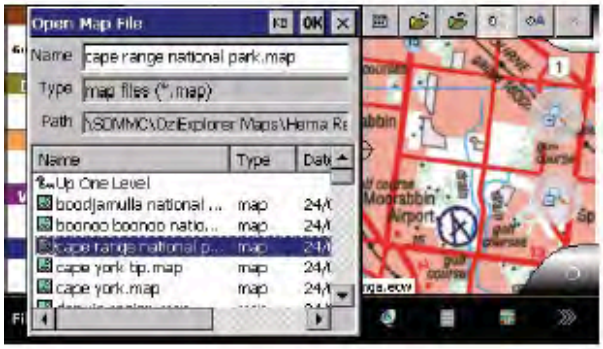
TIP:
Another method of viewing the navigation pages is by pressing this button which will bring up a menu for each page. If you use this method select "Next Wp Information" button.



Feel free to turn the GPS on by pressing the satellite button, however you will notice that once you get a GPS fix you will be taken to your current location and the odds are it won't be in the Cape Range National Park. You will also notice now that heading and speed are being displayed.

Using this waypoint information you can navigate directly to your waypoint either by aligning the red arrow to the yellow waypoint line, or trying to meet the bearing value with your heading.





To get back to planning mode and back to the Cape Range National Park, turn off your GPS satellite icon first, than open the map up again

To cancel navigation to the waypoint which will remove the yellow line, select Cancel Nav

Analysing the Waypoint Toolbar

Add a Waypoint - If selected, a waypoint is added at the position on the map where you touch.

Delete Waypoints - All waypoints are deleted from the map.

Display Waypoint List - A list of waypoints on the map is displayed. The list shows information about each waypoint.

Load a Waypoint File - Select a waypoint file (.wpt) to load onto the map.

Save Waypoints to File - All waypoints currently on the map are saved to a waypoint file (.wpt).

Show/Hide Waypoint Name - Waypoint names are displayed on map / or not.

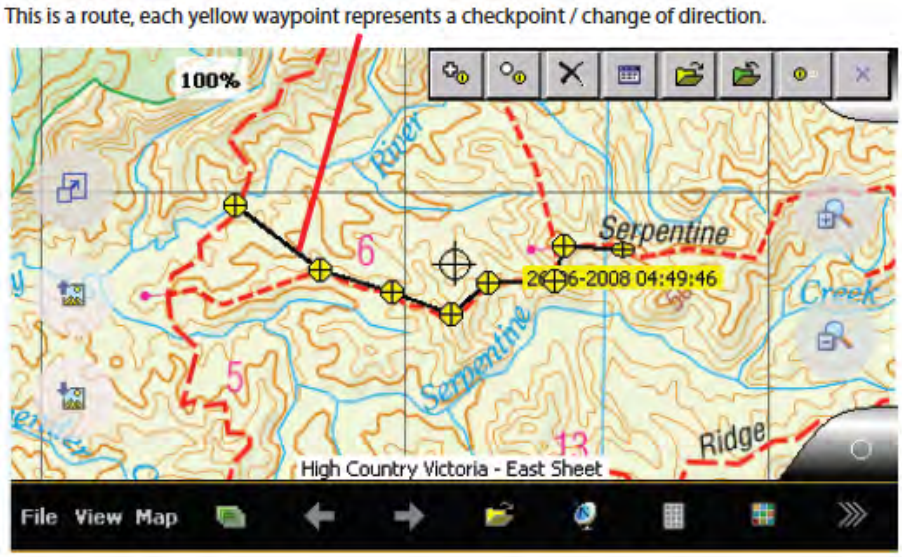
Auto Show Waypoint Properties - If selected, the waypoint properties dialog is shown automatically when a new waypoint is added. Changes to the name and description of the waypoint can be made.

Close - Turns off waypoint toolbar.

ROUTES

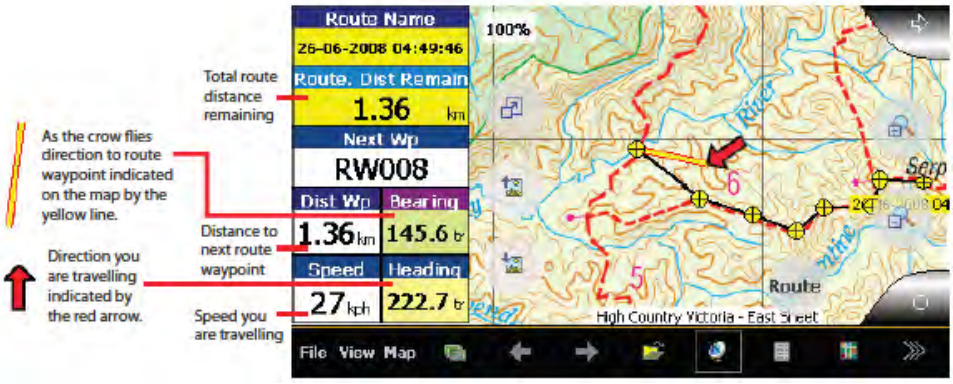
What is a route?

A route is a series of Waypoints that are linked together to assist you in reaching your destination.
Each Waypoint on the route is known as a 'Checkpoint'. When you reach each checkpoint you will be re-orientated and shown the direction to the next checkpoint on the map.



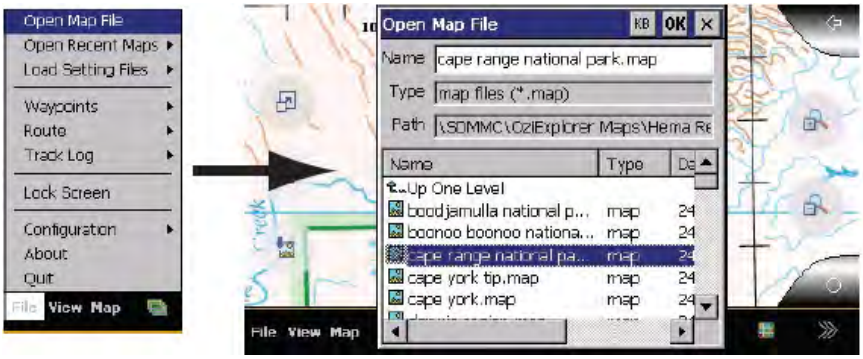
The Purpose of a Route

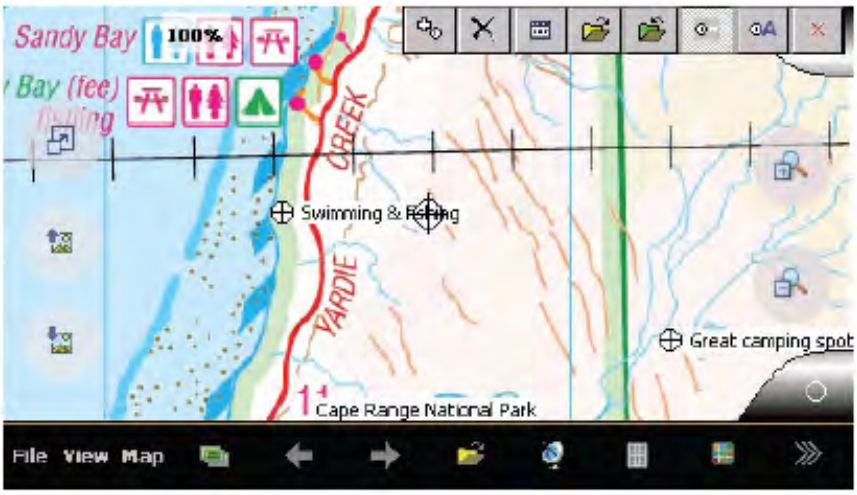
The purpose of a route is orientate you to follow a specific path that is set by you. The GPS will communicate your position in relation to the route set, keeping you on track and avoiding obstacles and unwanted turnoffs.



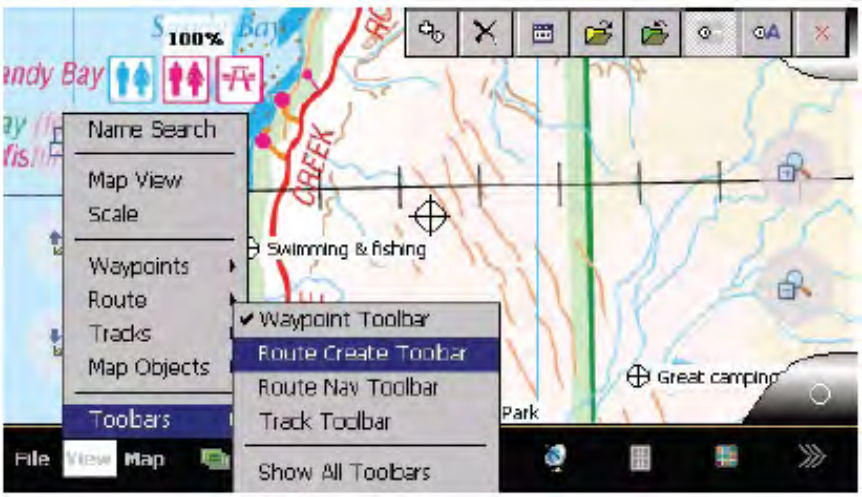
Setting up a Route

For this tutorial we will use the Cape Range National Park as before.



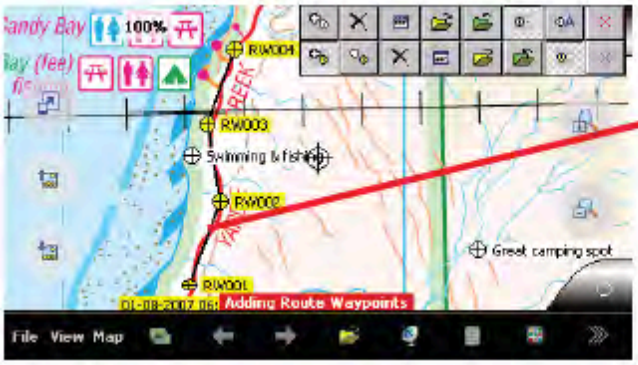


You will notice that previous Waypoints have been saved

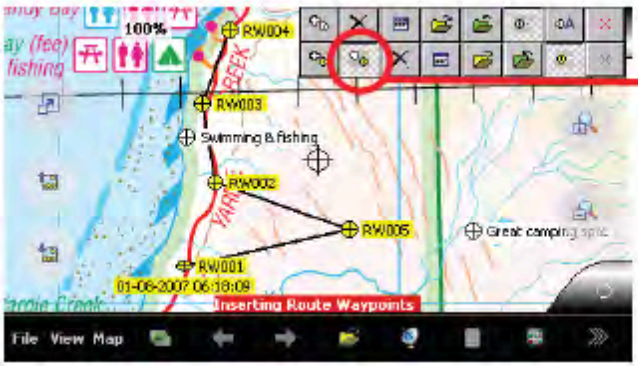


Select View, then Toolbars and select the 'Route Create toolbar

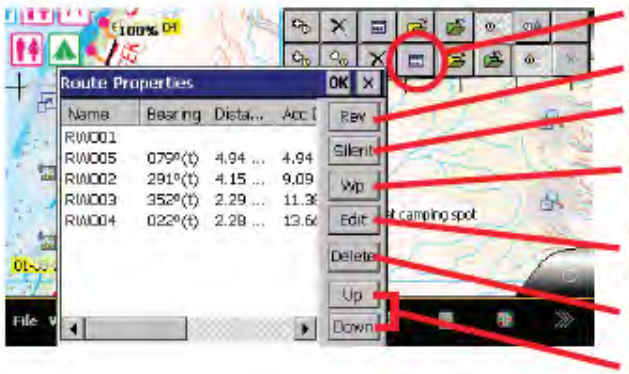
Select the Add a Route tool.



Tap the screen where you would start your route and continue to tap again for each Route waypoint. You will notice that the start of your route is symbolised by an oval shape as opposed to your regular circle checkpoints.



By selecting the Insert Waypoint tool you can insert a route waypoint on your existing route. The route will automatically link to the closest route checkpoint.



Just like waypoints, you can modify your route waypoints through this Route Properties button.

Rev: Reverses the order of the waypoints.

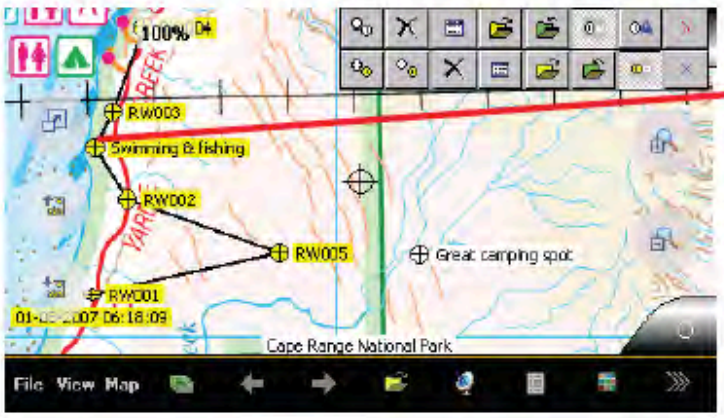
Silent: If you give a waypoint a silent property, no prompts are activated when approaching it.

Wp: Select this option if you wish your route to link with one of your Waypoints.

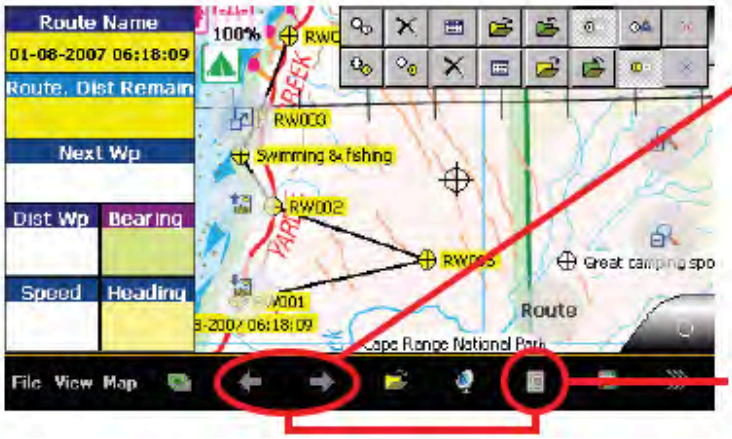
Edit: Title a route waypoint / checkpoint, you can also customise the route waypoint / checkpoints positions manually.

Delete: Deletes a selected route waypoint / checkpoint

Up / Down: Move a route waypoint up or down in order

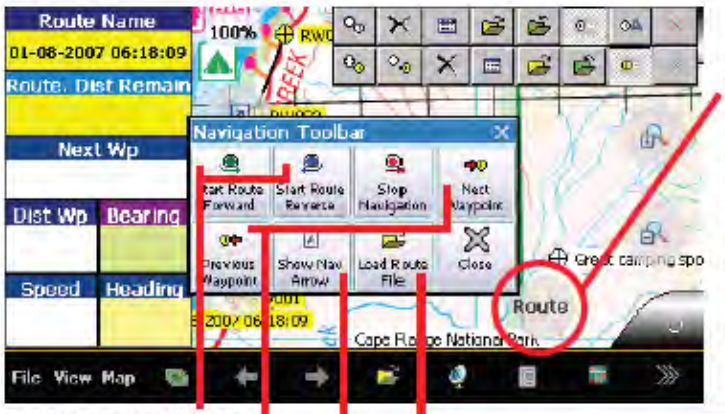


Just before in the route properties I selected the WP button allowing me to select one of my previously made waypoints and link in to my route.



press the right Navigation Page Arrow three times to bring up the Route information screen as illustrated.

Another method as mentioned in the Waypoints Guide is to view a menu of all the pages and select the Route Navigation page.



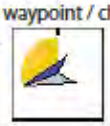
1. When you are in the Route information page you will notice a Route button will appear on the screen. Press this to begin navigating along your route.

TIP:
The navigation toolbar can also be simplified for easy access similarly to the waypoint and route toolbar. Go to View, Toolbars and select Route Nav Toolbar.

Start Route Forward and Start Route Reverse will guide you through your route accordingly. For example, press Start route forward to start navigating through your route. When you are finished and wish to return back you would press Start Route Reverse to navigate back to the beginning of your route.

Select Previous or Next Waypoint to skip a Route Waypoint and navigate to the next or previous one.

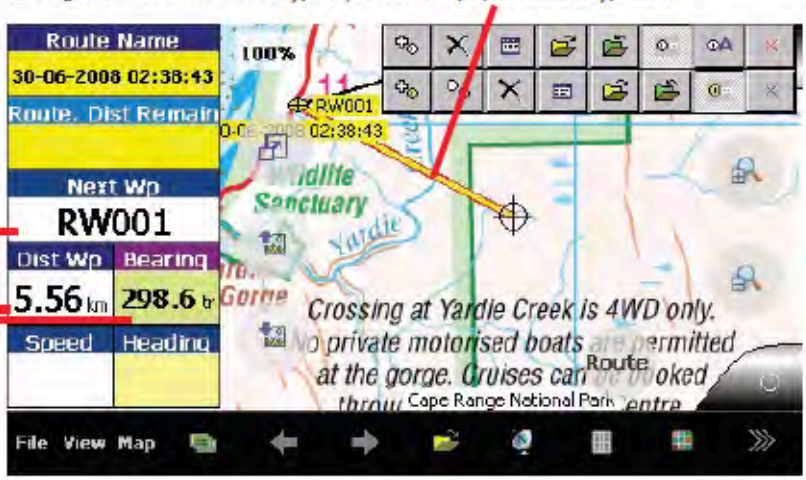
Toggles a navigation arrow which points you in the direction of your next route waypoint / checkpoint as illustrated.



Load Route File simply loads a route file previously saved from the Hema Navigator itself or one saved from OziExplorer on PC.
To Save a Route file press the Green Folder icon on your route toolbar as illustrated.

I have just selected to forward the route and you can see that from the position on the map it has targeted the closest Route waypoint, in this example, it's Route Waypoint 1.

You will notice since that when the forward route feature has been selected, the name of the Route Waypoint, the Distance to the waypoint and the Bearing is now displayed. If I was in the location and had a GPS Lock in navigation mode my Speed and Heading would be displayed along with navigation direction assistance and voice prompts.



Here is an example of reversing the route.

Using the Route Toolbar

Add a Route Waypoint - If selected, a Route waypoint is added at the position on the map where you touch.

Insert a Route Waypoint - If selected, a route waypoint is inserted between two waypoints or at the start or end of the route depending on a best choice.

Delete Route - The current route displayed is deleted from the map.

Display the Route Properties Dialog - The properties dialog displays a list of the route waypoints.

Load a Route - the selected route is loaded to the map.

Save Route to File - The currently loaded route is saved as a (.rt2) file.

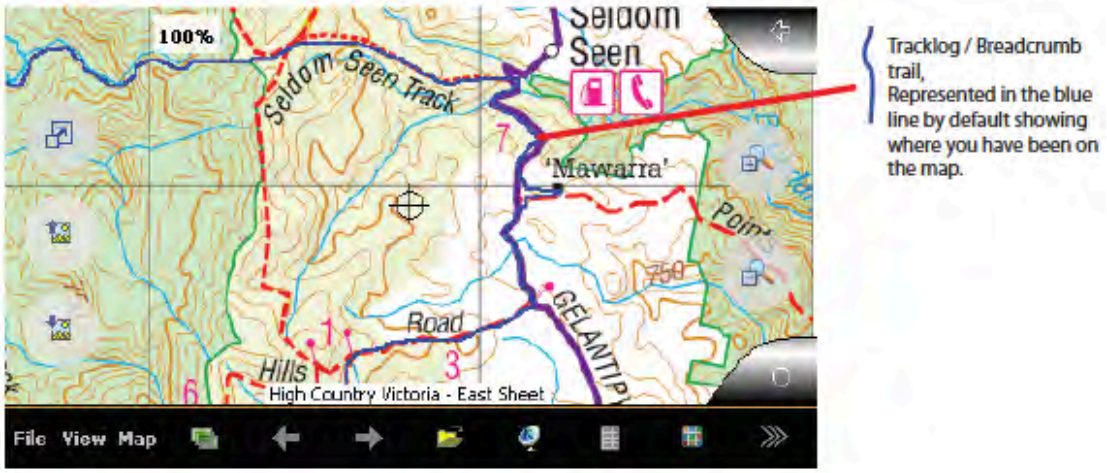
Show/Hide Route Waypoint Name - If selected, route waypoint names are displayed.

Close - Turns off Route Create toolbar.

Tracklogs

What is a Tracklog?

A tracklog, otherwise known as a breadcrumb trail is a line that overlays the map showing you where you have been. This can be handy for re-tracing your steps or analysing your trip.


100%
Seldom Seen Track
Seldom Seen
'Mawarra'
Road
Hills
High Country Victoria - East Sheet
File View Map
Tracklog / Breadcrumb trail, Represented in the blue line by default showing where you have been on the map.

Other tracklog options